ELSEVIER

General Subjects

Vol. 1380, 1998

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

Cumulative Contents

BBA is cited in: Current Contents / Life Sciences - Biological Abstracts - Chemical Abstracts - Index Chemicus - Index Medicus / MEDLINE - Cambridge Scientific Abstracts (CSA) - Excerpta Medica (EMBASE) - Reference Update - Current Awareness in Biological Sciences (CABS)

Information for Contributors *vii*

Regular papers

Role of chondroitin sulfate–hyaluronan interactions in the viscoelastic properties of extracellular matrices and fluids
M. Nishimura, W. Yan, Y. Mukudai, S. Nakamura, K. Nakamasu, M. Kawata, T. Kawamoto, M. Noshiro, T. Hamada and Y. Kato (Japan) 1

The complex between retinol and retinol-binding protein is formed in the rough microsomes of liver following repletion of vitamin A-depleted rats
J.E. Smith, L.M. DeMoor, C.E. Handler, E.L. Green and S.J. Ritter (USA) 10

Characterisation of non-transferrin-bound iron (ferric citrate) uptake by rat hepatocytes in culture
E. Baker, S.M. Baker and E.H. Morgan (Australia) 21

Oriented growth of calcium oxalate monohydrate crystals beneath phospholipid monolayers
S.R. Letellier, M.J. Lochhead, A.A. Campbell and V. Vogel (USA) 31

Protective effects of carnosine against protein modification mediated by malondialdehyde and hypochlorite
A.R. Hipkiss, V.C. Worthington, D.T.J. Himsworth and W. Herwig (UK) 46

Hydroxyl radical formation resulting from the interaction of nitric oxide and hydrogen peroxide
A.J. Nappi and E. Vass (USA) 55

Time resolved absorption study of the reaction of hydroxyurea with sickle cell hemoglobin
D.B. Kim-Shapiro, S.B. King, C.L. Bonifant, C.P. Kolibash and S.K. Ballas (USA) 64

Induction of prothrombin synthesis by K-vitamins compared in vitamin K-deficient and in brodifacoum-treated rats
A.M. Crāciun, M.M.C.L. Groenen-van Dooren, H.H.W. Thijssen and C. Vermeer (The Netherlands) 75

Quantitative measurements of the interaction between monosialoganglioside monolayers and wheat germ agglutinin (WGA) by a quartz-crystal microbalance
T. Sato, T. Serizawa, F. Ohtake, M. Nakamura, T. Terabayashi, Y. Kawanishi and Y. Okahata (Japan) 82

Identification of carbohydrate deficient transferrin forms by MALDI-TOF mass spectrometry and lectin ELISA
J. Peter, C. Unverzagt, W.-D. Engel, D. Renauer, C. Seidel and W. Hösel (Germany) 93

Reactive iron species in biological fluids activate the iron–sulphur cluster of aconitase
S. Mumby, M. Koizumi, N. Taniguchi and J.M.C. Gutteridge (UK, Japan) 102

Bilirubin as an anti precipitant against copper mediated denaturation of bovine serum albumin: formation of copper–bilirubin complex
S. Adhikari, R. Joshi and C. Gopinathan (India) 109

Stereochemistry and biological activities of constituents from *Cynanchum taiwanianum*
C.-N. Lin, P.-L. Huang, J.-J. Wang, S.-H. Day, H.-C. Lin, J.-P. Wang, Y.-L. Ko and C.-M. Teng (Taiwan) 115

Concentration-dependent differential effects of *N*-acetyl-L-cysteine on the expression of HSP70 and metallothionein genes induced by cadmium in human amniotic cells
T. Abe, K. Yamamura, S. Gotoh, M. Kashimura and K. Higashi (Japan) 123

Antioxidant capacity is correlated with steroidogenic status of the corpus luteum during the bovine estrous cycle
R. Rapoport, D. Sklan, D. Wolfenson, A. Shaham-Albalancy and I. Hanukoglu (Israel) 133

Purification and characterization of two insecticyanin-type proteins from the larval hemolymph of the Eri-silkworm, *Samia cynthia ricini*
H. Saito (Japan) 141

Information for Contributors *vii*

Short sequence-papers

Cloning and sequence analysis of cDNAs encoding the heavy and light chain variable regions of a human monoclonal antibody with specificity for hepatitis B surface antigen
C.J. Ryu, H.K. Chung and H.J. Hong (South Korea) 151

Cloning and characterization of cDNAs coding for heavy and light chains of agglutinating monoclonal antibody (HAG12islrh) specific for human red blood cells
Y.-S. Bong, S.-H. Cho, S.-U. Nham and Y.-I. Lee (South Korea) 156

Review

The oxidative metabolism of catecholamines in the brain: a review
J. Smythies and L. Galzigna (USA, Italy) 159

Regular papers

A novel function of enolase from rabbit muscle; an immunoglobulin production stimulating factor
T. Sugahara, S. Shimizu, M. Abiru, S. Matsuoka and T. Sasaki (Japan) 163

Characterization of tau phosphorylation in glycogen synthase kinase-3β and cyclin dependent kinase-5 activator (p23) transfected cells
G. Michel, M. Mercken, M. Murayama, K. Noguchi, K. Ishiguro, K. Imahori and A. Takashima (Japan) 177

In vivo roles of Bm3R1 repressor in the barbiturate-mediated induction of the cytochrome P450 genes ($P450_{BM\text{-}3}$ and $P450_{BM\text{-}1}$) of *Bacillus megaterium*
Q. Liang, L. Chen and A.J. Fulco (USA) 183

^{13}C-Glycogen deposition during pregnancy in the rat following routine meal feeding
K.K. Changani, J.D. Bell and R.A. Iles (UK) 198

Six isoforms of cardiotoxin in Malayan spitting cobra (*Naja naja sputatrix*) venom: cloning and characterization of cDNAs
K. Jeyaseelan, A. Armugam, R. Lachumanan, C.H. Tan and N.H. Tan (Singapore, Malaysia) 209

Separation and characterization of three β-galactosidases from *Bacillus circulans*
A. Vetere and S. Paoletti (Italy) 223

Adenosine 5′-tetraphosphate phosphohydrolase activity is an inherent property of soluble exopolyphosphatase from yeast *Saccharomyces cerevisiae*
A. Guranowski, E. Starzyńska, L.D. Barnes, A.K. Robinson and S. Liu (Poland, USA) 232

Characterization of a small chondroitin sulfate proteoglycan isolated from the mucus surrounding the embryos of *Viviparus ater* (Mollusca Gastropoda)
N. Volpi, M. Dondi and A.M.F. Bolognani (Italy) 239

N-Acetyl-D-glucosamine-specific lectin from the ascidian *Didemnum ternatanum*
N. Belogortseva, V. Molchanova, V. Glazunov, E. Evtushenko and P. Luk'yanov (Russian Federation) 249

Methanopterin biosynthesis: methylation of the biosynthetic intermediates
R.H. White (USA) 257

Distribution of glycoproteins with β-*N*-acetylgalactosaminylated N-linked sugar chains among bovine tissues
T. Sakiyama, M. Kabayama, M. Tomita, J.-i. Nakamura, H. Mukai, Y. Tomita and K. Furukawa (Japan) 268

Kinetics of hydrogen peroxide elimination by human umbilical vein endothelial cells in culture
K. Sasaki, S. Bannai and N. Makino (Japan) 275

Regulation of a common, low-affinity binding site for primary prostanoids on bovine aortic endothelial cells
G. Rimon and M. Rubin (Israel) 289

Information for Contributors *vii*

Regular papers

Differential catalytic properties in metabolism of endogenous and exogenous substrates among CYP3A enzymes expressed in COS-7 cells
S. Ohmori, H. Nakasa, K. Asanome, Y. Kurose, I. Ishii, M. Hosokawa and M. Kitada (Japan) 297

Tissue distributions of CYP2D1, 2D2, 2D3 and 2D4 mRNA in rats detected by RT-PCR
T. Hiroi, S. Imaoka, T. Chow and Y. Funae (Japan) 305

Irreversible phase transition of firefly luciferase: contrasting effects of volatile anesthetics and myristic acid
I. Ueda and A. Suzuki (USA) 313

Proteolytic processing of a secreted glycoprotein and O-glycosylation of mannoproteins are affected in the N-glycosylation mutant *Saccharomyces cerevisiae ldb1*
P. Mañas, I. Olivero and L.M. Hernández (Spain) 320

Cytotoxicity and DNA binding characteristics of dextran-conjugated doxorubicins
M. Yang, H.L. Chan, W. Lam and W.F. Fong (Hong Kong) 329

Inhibition of cytochrome *c* oxidase activity by 4-hydroxynonenal (HNE). Role of HNE adduct formation with the enzyme subunits
J. Chen, S. Schenker, T.A. Frosto and G.I. Henderson (USA) 336

Enhancement of intestinal UDP-glucuronosyltranferase activity in partially hepatectomized rats
V.A. Catania, M.G. Luquita, E.J. Sánchez Pozzi and A.D. Mottino (Argentina) 345

Novel vectors for gene delivery formed by self-assembly of DNA with poly(L-lysine) grafted with hydrophilic polymers
V. Toncheva, M.A. Wolfert, P.R. Dash, D. Oupicky, K. Ulbrich, L.W. Seymour and E.H. Schacht (Belgium, UK, Czech Republic) 354

Serum DNA polymerase β as an indicator for fatal liver injury of rat induced by D-galactosamine hydrochloride and lipopolysaccharide
O. Kato, Y. Fukuda, T. Hayakawa, S. Izuta and S. Yoshida (Japan) 369

Characterization of hyaluronan synthase from a human glioma cell line
T. Asplund, J. Brinck, M. Suzuki, M.J. Briskin and P. Heldin (Sweden, USA) 377

Erythrocyte defenses against hydrogen peroxide: the role of ascorbic acid
S. Mendiratta, Z.-c. Qu and J.M. May (USA) 389

Hypoxia and contractions do not utilize the same signaling mechanism in stimulating skeletal muscle glucose transport
J.F.P. Wojtaszewski, J.L. Laustsen, W. Derave and E.A. Richter (Denmark) 396

Cumulative Contents, Vol. 1380 405

Author Index 408